

**A: Amend the claims as follows:**

1. through 11. (Cancelled)

12. (Currently Amended) Management system for managing distributed resources (11-16;61-66) comprising a digital computer managed system providing a management client 41 coupled to a controller 44 which communicates with a correlation server 48 and with an event server 51 having managed resources 61-66 to be managed, said correlation server 48 comprising a web service container 71 with correlation services implemented as stateful web correlation services 74, 75, 76 which communicate with each other and with a workflow engine 88 ~~having an internal control system to provide for Stateful Web Services including a workflow engine (8:88)~~ that can execute management workflows in order to actively control the ~~distributed~~ managed resources (11-16; 61-66), ~~characterized in that autonomic Correlation Services (74-76) are introduced,~~ said stateful web correlation services 74, 75, 76 providing multiple autonomic correlation services ~~Correlation Services for~~ monitoring and controlling part of said managed system that manage different functional parts of the managed system in cooperation with the workflow engine (88) to query the state of managed resources 61-66 and to communicate with the event server 51 while employing ~~whereby each Correlation Service (74-76) employs a Correlation Engine~~ correlation engine (174, 175) and a set of rules (184,185,196) defining ~~that describe~~ how underlying resources (61-66) shall be managed in a correlation model ~~Correlation Model, whereby a~~ as said controller (44) communicates with the ~~Correlation Services~~ stateful web correlation services (74-76) to instantiate said stateful web correlation services 74, 75, 76 according to said correlation model.

13. (Currently Amended) Management system according to claim 12, characterized in that the Services ~~Correlation Services~~ stateful web

correlation services (74-76) directly (92) communicate with managed resources (61-66).

14. (Currently Amended) Management system according to claim 12, characterized in that rules for filtering low-level events issued by managed resources (61-66) are deployed in an ~~Event Service Application~~ event service application (50) that is used to filter high-level events from low-level events.

15. (Currently Amended) Management system according to claim 14, characterized in that the controller (44) communicates with the ~~Event Service Application~~ event service application (50).

16. (Currently Amended) Management System according to claim 12, characterized in that the stateful web correlation services ~~Correlation Services~~ are modeled as ~~Stateful Web Services~~ stateful web services to instantiate said correlation services according to a user-defined correlation model, whereby each of said stateful web correlation services can introspect each other and subscribe to events issued by each other, for managing said managed system, wherein each single correlation service manages part of the overall system, and in said management of part of the overall system, a single correlation service checks whether it contains rules that react to high-level events issued by subordinate correlation services, and uses web service introspection to see which events are issued by another correlation service.

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17. (Currently Amended) Method for managing distributed resources in a digital computer, comprising: steps executed by a digital computer managed system having an internal control system ~~to provide for Stateful Web Services~~ implementing

a) a user defined correlation model ~~Correlation Model~~ comprising

the definitions of several stateful web correlation services 74, 75, 76 ~~Correlation Services~~ for different functional parts of the managed system providing multiple autonomic correlation services ~~Correlation Services~~ for monitoring and controlling part of said distributed system; and

b) wherein a controller of said internal control system instantiates stateful web correlation services ~~Correlation Services~~ (74-76) ~~as running Stateful Web Services~~ to run in accordance with the definitions of the Correlation Model , and

c) wherein said user defined correlation model defines how underlying resources (61-66) shall be managed as said controller (44) communicates with the stateful web correlation services (74-76) to instantiate said stateful web correlation services 74, 75, 76 according to said correlation model.

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18. (Currently Amended) Method according to claim 17, characterized in that handles to all of the resources managed by a single one of said stateful web correlation services ~~Correlation Services~~ (74-76) are stored within that single stateful web correlation service ~~Correlation Service~~.

19. (Currently Amended) Method according to claim 17, characterized in that high-level events are defined on which a specific single one of said stateful web correlation services ~~Correlation Service~~ (74-76) shall react, and in that the respective single one of said stateful web correlation services ~~Correlation Service~~ (74-76) creates subscriptions with an ~~Event Service~~ event service (50) in order to be notified when such events are detected.

20. (Currently Amended) Method according to claim 17, characterized in that the correlation model provides set of rules that describe how the managed resources shall be managed; said rules being triggered by

detected high-level events, and include queries on resource states and trigger the execution of management workflows; and said correlation model defines a set of high-level events which can be issued by the Correlation Service as a result of said rules, and if detected problems cannot be resolved by a stateful web correlation service; a higher-level stateful web correlation services can subscribe for these events to create a hierarchical network as said higher-level stateful web correlation services ~~Correlation Services~~ use Web Service introspection to see which events are issued by another one of said stateful web correlation services ~~Correlation Service~~ (75, 76).

21. (Currently Amended) Method according to claim 17, characterized in that the stateful web correlation services ~~Correlation Services~~ (74-76) trigger the execution of workflows in order to actively manage their resources (61-66).

22. (Currently Amended) Computer program product stored in the internal memory of a digital computer, in combination with said digital computer, said combination comprising: a digital computer managed system having an internal control system to provide for ~~Stateful Web Services~~ stateful web services and executable code stored in said internal memory containing parts of software code to provide

- a) a user defined correlation model ~~Correlation Model~~ comprising the definitions of several stateful web correlation services 74, 75, 76 ~~Correlation Services~~ for different functional parts of the managed system providing multiple autonomic correlation services ~~Correlation Services~~ for monitoring and controlling part of said distributed system; and
- b) wherein a controller of said internal control system instantiates stateful web correlation services ~~Correlation Services~~ (74-76) ~~as running Stateful Web Services to run~~ in accordance with the definitions of the Correlation Model, and
- c) wherein said user defined correlation model defines how underlying resources (61-66) shall be managed as said controller (44)

communicates with the stateful web correlation services (74-76) to instantiate said stateful web correlation services 74, 75, 76 according to said correlation model.

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23. (Currently Amended) The computer program product of claim 22, characterized in that handles to all of the resources managed by a single one of said stateful web correlation services ~~Correlation Services~~ (74-76) are stored within that single stateful web correlation service ~~Correlation Service~~.

- 24. (Currently Amended) The computer program product of claim 22, characterized in that high-level events are defined on which a specific single one of said stateful web correlation services ~~Correlation Service~~ (74-76) shall react, and in that the respective single one of said stateful web correlation services ~~Correlation Service~~ (74-76) creates subscriptions with an ~~Event Service~~ event service (50) in order to be notified when such events are detected.
- 25. (Currently Amended) The computer program product of claim 22, characterized in that said user defined correlation model defines how with a set of rules that describe how the managed resources shall be managed; said rules being triggered by detected high-level events, and include queries on resource states and trigger the execution of management workflows; and said correlation model defines a set of high-level events which can be issued by the Correlation Service as a result of said rules, and if detected problems cannot be resolved by a stateful web correlation service; a higher-level stateful web correlation services can subscribe for these events to create a hierarchical network as said higher-level stateful web correlation services ~~Correlation Services~~ use Web Service introspection to see which events are issued by another one of

said stateful web correlation services Correlation Service (75,  
76).

26. (Currently Amended) The computer program product of claim 22,  
characterized in that the stateful web correlation services  
~~Correlation Services~~ (74-76) trigger the execution of workflows in  
order to actively manage their resources (61-66).